## What is claimed is:

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- 1. A complex salt for an anti-spotting detergent, the complex salt being formed by the reaction of a photo-bleaching component having a water-soluble anionic substituent and a cationic surfactant.
- 2. The complex salt of claim 1, wherein the photo-bleaching component having the water-soluble substituent is a metallo porphrin, a metallo phthalocyanine, a metallo naphthalocyanine, or a combination of the forgoing materials.
- 3. The complex salt of claim 2, wherein the metallo phthalocyanine is zinc phthalocyanine sulfonate or aluminum phthalocyanine sulfonate.
- 4. The complex salt of claim 1, wherein the cationic surfactant is a quaternary ammonium compound having one of formulae (1), (2), and (3) below:

wherein  $R_1$  is a substituted or unsubstituted  $C_8$ - $C_{22}$  alkyl group or a substituted or unsubstituted  $C_8$ - $C_{22}$  alkenyl group;  $R_2$  is a substituted or unsubstituted  $C_1$ - $C_4$  alkyl group; and X is selected from among a halogen atom, acetate, phosphate, nitrate, and methyl sulfate;

wherein  $R_1$  is a substituted or unsubstituted  $C_8$ - $C_{22}$  alkyl group or a substituted or unsubstituted  $C_8$ - $C_{22}$  alkenyl group; and X is selected from among a halogen atom, acetate, phosphate, nitrate, and methyl sulfate; and

$$\begin{bmatrix} R_4 \\ R_3 - N - R_5 \\ R_6 \end{bmatrix}^+ X^-$$
...(3)

wherein  $R_3$  is selected from among a hydrogen atom, a substituted or unsubstituted  $C_1$ - $C_{22}$  alkyl, and a substituted or unsubstituted  $C_1$ - $C_{22}$  alkenyl group;  $R_4$  is one or a substituted or unsubstituted  $C_8$ - $C_{22}$  alkyl group and a substituted or unsubstituted  $C_8$ - $C_{22}$  alkenyl group; each of  $R_5$  and  $R_6$  is a  $C_1$ - $C_4$  alkyl group; and X is selected from among a halogen atom, acetate, phosphate, nitrate, and methyl sulfate.

- 5. The complex salt of claim 4, wherein the cationic surfactant of said formula (2) is selected from among the group consisting of 1-methyl-1-[(steroylamido)ethyl]-2-octadecyl-4,5-dihydroimidazolinium chloride, 1-methyl-1-[(oleylamino)ethyl]-2-oleyl-4,5-dihydroimidazolinium methyl sulfate, 1-methyl-1-[(tallowamido)ethyl]-2-tallow-4,5-imidazolinium chloride, 1-methyl-1-[(palmitoylamido)ethyl]-2-octadecyl-4,5-dihydroimidazolinium chloride, 1-methyl-1-[(steroylamide)ethyl]-2-octadecyl-4,5-dihydroimidazolinium chloride, and 1-methyl-1-[(hydrogenated tallowamido)ethyl]-2-hydrogenerated tallow-4,5-imidazolinium chloride.
- 6. The complex salt of claim 4, wherein the cationic surfactant of said formula (3) is selected from the group consisting of tallow trimethyl ammonium chloride, ditallow dimethyl ammonium chloride, ditallow dimethyl ammonium methyl sulfate, dihexadecyl diemethyl ammonium chloride, di(hydrogenated tallow)dimethyl ammonium chloride, dioctadecyl dimethyl ammonium chloride, dicosyl dimethyl ammonium chloride, dicosyl dimethyl ammonium chloride, di(hydrogenated tallow)dimethyl ammonium methyl sulfate, dihexadecyl diethyl ammonium chloride, dihexadecyl dimethyl ammonium acetate,

ditallow dipropyl ammonium phosphite, ditallow dimethyl ammonium nitrate, and di(coconut-alkyl)dimethyl ammonium chloride.